

Baylor Neo Database Fields

(click on hyperlinks for definitions and limits)

<u>Demographics</u>		<u>Baby Factors</u>		<u>Infectious Disease</u>	
Name (Last & First)		Birth Weight		Early Onset Sepsis (Y/N) (+ culture DOL 1-2)	
Hospital		Admit Weight		Acquired Sepsis (Y/N) (+ culture after 48 hours of life)	
Hospital #		FOC		1 st , 2 nd and 3 rd Episode Organisms	
Funding Source		Gestational Age (wks by maternal dates)		Meningitis (Y/N)	
Sex		Gestational Age (wks by exam; start 7/1/03; prior available)		NEC (Pneumatosis present) (Y/N)	
Race		Birth Order		NEC Surgery (Y/N)	
<u>Dates</u>		<u>Resuscitation</u>		<u>Neurologic Disease</u>	
Birth Date		Type of Resuscitation Performed		SEH/IVH (Y/N) and grade of IVH	
Hospital Admission		Meconium in Trachea (Y/N)		Cystic PVL on ultrasound (Y/N)	
First ICU Admission		Cord pH < 7 (Y/N)		Posthemorrhagic Hydrocephalus (Y/N)	
Last ICU Discharge		Apgars (1 and 5 minute)		Surgery for ROP (Y/N)	
Hospital Discharge		Surfactant (any # of doses) (Y/N)		Neonatal Seizures (Y/N)	
		UAC (Y/N)			
		UVC (Y/N)			
<u>Mortality</u>		<u>Respiratory Support</u>		<u>Other Clinical Data</u>	
Died (Y/N)		Caffeine or Apnea Drug (Y/N)		Jaundice & Phototherapy (Y/N)	
<u>Cause of Death</u>		Recurrent Apnea (Y/N)		PDA and Type of Treatment	
Voluntary Withdrawal/holding of Support (Y/N)		O2 and Duration (<1wk,<28d,<3mo,>3mo)		Nasal CPAP complication (Y/N)	
		O2 @ 36 wks GA if >= 28 days old (Y/N) (start 12/31/97)		Tracheal Stenosis (Y/N)	
		CPAP Only (Y/N)		Central Line (Y/N) (not UAC or UVC)	
		IPPV and Duration (<1wk,<28d,<3mo,>3mo)		Spontaneous GI Perforation (Y/N) (start 7/1/01)	
		IPPV @ 36 wks GA if >= 28 days old (Y/N)		Unusual DX, RX, or Surgery	
		ECMO (Y/N)			
		Nitric Oxide (Y/N)			
<u>Referral & Transfer</u>		<u>Congenital Anomalies</u>		<u>Discharge Data</u>	
Newborn Section Involved (Y/N)				Weight & FOC	
Referring Hospital				Discharge on Apnea Monitor (Y/N)	
Referring Pedi				Discharge on Oxygen (Y/N)	
Referring OB				Discharge/Signoff Physician	
Transport Team (Y/N)				Follow-up Physician	
<u>Primary Reason for Admission to Hospital</u>				Discharge Location	
<u>Maternal Factors</u>		<u>Lung Disease</u>			
Maternal Age, Gravidity, Parity & Abortions		<u>Hyaline Membrane Disease (Y/N)</u>			
# of Babies this Pregnancy		Transient Tachypnea (Y/N)			
Prenatal care (Y/N)		Persistent Pulmonary Hypertension (PPHN) (Y/N)			
C-Section (Y/N)		Congenital Pneumonia (Y/N)			
Prolonged Rupture (Y/N)		Meconium Aspiration Pneumonia (Y/N)			
Maternal Illness		Pulmonary Hypoplasia (Y/N)			
Maternal Steroids (Y/N)		Air Block (includes PIE) (Y/N)			
Tocolytics (Y/N) (stopped 6/30/01)		Other Acute Lung Disease (Y/N)			

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Baylor Database Data Definitions and Limits

Demographics

Data Entry Form Name	Field Name	Type	Length	Input Limits	Definition
Last Name	LNAM	Alpha	20	Open	Infant's last name
Given Name	MFRNAM	Alpha	10	Open	Infant's first name, sex and twin designation (e.g., "Mary T/A/G" or "Baby Boy A").
Hospital	HOSPITAL	Alpha	1	T, B, M, W, C	"T"=TCH; "B"=Ben Taub; "M"=Methodist; "W"=Womens; "C"=Bayou City The following codes exist in the database but are not available through data input: "X" = Consolidated Transfer from Ben Taub to TCH; "Y" = Consolidated Transfer from Methodist to TCH.
Hospital #	HNUM	#	12	Open	Infant's Medical Record Number at Baylor Affiliated Hospital of last admission.
Funding Source	FUNDING	Alpha	12	Open	Infant's insurance for hospital billing. See official list (to be developed).
Sex	SEX	Alpha	1	M, F, U	"M"=Male; "F"=Female; "U"=Uncertain
Race	RACE	Alpha	1	W,B,H,A,O	Race of Mother: "W"=White; "B"=Black; "H"=Hispanic; "A"=Asian; "O"=Other (Note: TCH Codes as of 6/2003: 1=White; 2=Black; 4=Asian; 5=Hispanic; 6 or 8=Other)

Dates

Data Entry Form Name	Field Name	Type	Length	Limits	Definition
Birth Date	BDATE	Date	mm/dd/yyyy	>01/01/1985, 1/1/1901	Birth Date of infant. "1/1/1901" if unknown.
Hospital Admission Date	HADATE	Date	mm/dd/yyyy	Open	First date infant admitted to hospital. Readmission after discharge is a new record. "1/1/1901" if unknown.
First ICU Admission	ADATE	Date	mm/dd/yyyy	Open	First date in ICU even if there are multiple readmits in the same admission. "1/1/1901" if no ICU admission or unknown.
Last ICU Discharge	ICUDISC	Date	mm/dd/yyyy	Open	Last date in ICU even if there are multiple readmits in the same admission. "1/1/1901" if no ICU admission or unknown.
Hospital Discharge	DISDATE	Date	mm/dd/yyyy	Open	Date left hospital or died during current admission. "1/1/1901" if unknown.

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Baylor Database Data Definitions and Limits

Mortality

Data Entry Form Name	Field Name	Type	Length	Limits	Definition
Died	DIED	Alpha	1	Y, N	"Y" = died during hospital admission
Cause of Death	CAUSEOD	Alpha	30	Open	See official list
Vol W/drawing or W/holding of support	VOLUNTARY	Alpha	1	Y, N	"Y" includes if DNR orders are given.

Referral and Transfer

Data Entry Form Name	Field Name	Type	Length	Limits	Definition
Newborn Section Involved	NBSECT	Alpha	1	Y, N	Attending or consulting physician is from Baylor Neonatology
Referring Hosp.	REFHOSP	Alpha	5	Open	Use original abbreviation for hospital even if names change
Referring Pedi	REFPD	Alpha	30	Open	Pediatrician who referred infant to Baylor Neo; If none, use "None"
Referring OB	REFOB	Alpha	30	Open	OB who referred infant to Baylor Neo; If none, use "None"
Transport Team	XTEAM	Alpha	1	Y, N	"Y" = Baylor Neo transport team used (even from St. Luke's/Methodist)
Primary Reason for Admission	PRIM_X	#	1	0-9	"0" if no transport; See official list
Other Reasons for Admission	OTH_X	Alpha	30	Open	Use only if code # 8 selected in #16a; otherwise enter "N/A"

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Baylor Database Data Definitions and Limits

Causes of Death – Official List

<u>Abbreviation/Short Phrase (if any)</u>	<u>Full Description</u>
NEC	Necrotizing Enterocolitis
Sepsis	Sepsis (+ Culture)
Congenital Pneumonia	Congenital Pneumonia (+ Culture)
-	<i>Respiratory Diseases:</i>
HMD	Hyaline Membrane Disease
PPH	Persistent Pulmonary Hypertension
PIE	Pulmonary Interstitial Emphysema
BPD	Broncho-Pulmonary Dysplasia
Air Block	Air Block
Meconium Aspiration	Meconium Aspiration
Asphyxia	Asphyxia (cord pH <7.00)
-	<i>Congenital Anomalies:</i>
CDH	Congenital Diaphragmatic Hernia
CHD	Congenital Heart Disease
Pulmonary Hypoplasia	Primary Pulmonary Hypoplasia
Renal Agenesis	Renal Agenesis
Airway Malformation	Airway Malformation
CNS Malformation	Major CNS Malformation
Chromosomal Anomaly	Proven Chromosomal Anomaly
Multiple Anomalies	Non-Specific Multiple Anomalies
Renal Failure	Renal Failure
Severe IVH	Severe Intraventricular Hemorrhage
Extreme Immaturity	Extreme Immaturity <= 24 weeks
Hydrops	Hydrops Fetalis
MSOF	Multi-System Organ Failure
-	Other (specify cause of death)
Undetermined	Undetermined

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Baylor Database Data Definitions and Limits

Primary Reason for Admission to Hospital

- 1.Hypoglycemia
- 2.Respiratory Distress
- 3.Suspected Infection of Infant
- 4.Congenital Malformation
- 5.Cardiac Arrhythmia
- 6.Jaundice
- 7.Pre-term infant (<36 weeks)
- 8.Other (specify)
- 9.Maternal Chorioamnionitis

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Baylor Database Data Definitions and Limits

Maternal Factors

Data Entry Form Name	Field Name	Type	Length	Limits	Definition
Maternal Age in Years	MATRAGE	#	2	<55, >10, 99	Unknown = "99"
Gravidity	GRAVIDTY	#	2	>0, <20, 99	Gravidity (# of pregnancies) at the time of admission. Unknown = "99"
Parity	PARITY	#	2	<20, 99	Parity (# of births) prior to this delivery. Unknown = "99"
Abortions	ABORTS	#	2	<20, 99	# of abortions and miscarriages. Unknown = "99"
# of Babies this Pregnancy	NUMBABYS	#	1	>0, <10	# of babies born during this pregnancy including stillbirths
Prenatal care	PRENATAL	Alpha	1	Y, N, U	"Y" = Mother received <u>any</u> prenatal care. Unknown = "U"
C-Section	CSECTION	Alpha	1	Y, N	"Y" = Mother had a C-section in this delivery
PROM	PRBOW	Alpha	1	Y, N, U	"Y" = Rupture of membranes > 24 hrs. Unknown = "U"
Maternal Illness	MATRNIILL	Alpha	30	Open	
Maternal Steroids	STERIODS	Alpha	1	Y, N, U	"Y" = mother received any glucocorticoids for fetal lung maturation. Unknown = "U"
Tocolytics	TOCOLYTS	Alpha	1	Y, N, U	"Y" = mother received beta agonists or magnesium sulfate (if used as tocolytic and not used to treat pregnancy induced hypertension). Field made inactive 6/30/01. Unknown = "U"

Baby Factors

Data Entry Form Name	Field Name	Type	Length	Limits	Definition
Birth Weight in Grams	BWEIGHT	#	4	<10000, 0	Weight at birth; if only "Full Term" is stated, use "3000"; if unknown, use "0"
Admit Weight in Grams	AWEIGHT	#	4	<10000	Weight at admission
Admit FOC in cm.	FOC	#	2	<60, >15, 99	Frontal Occipital Head Circumference at admission; Unknown = "99"
Gestational Age in wks	GESTAGE	#	2	<47, >15, 99	Use maternal dates; if only "Full Term" is stated, use "40"; if unknown, use "99"
Gestational Age by exam	GESTAGEBYEXAM	#	2	<47, >15, 99	Equals estimated gestational age using the Ballard method as in the medical record. If only "Full Term" is stated, use "40"; if unknown, use "99". Record dates by ultrasound ("EBS") in "Unusual DX, RX or Surgery". Added 7/1/2003
Birth Order	BORDER	#	1	>0	Order of delivery for multiple deliveries

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Resuscitation

Data Entry Form Name	Field Name	Type	Length	Limits	Definition
Resuscitation	RESUSCIT	Alpha	1	N, O, I, M, U	"N"=none; "O"=Oxygen; "I"=IPPV; "M"=Code meds; "U"=Unknown
Meconium in Trachea	MECTRACH	Alpha	1	Y, N	"Y" = Endotracheal suctioning at birth with meconium in trachea.
Asphyx	ASPHYX	Alpha	1	Y, N	"Y" = cord pH <7.00
Apgar 1 min	APGAR1MN	#	2	0 to 10, 99	Unknown = "99"
Apgar 5 min	APGAR5MN	#	2	0 to 10, 99	Unknown = "99"
Surfactant (any # of doses)	SURFACT	Alpha	1	Y, N, U	"Y" = Infant received any number of surfactant doses; "U" = Unknown
UAC	UAC	Alpha	1	Y, N	"Y" = UAC present for any length of time
UVC	UVC	Alpha	1	Y, N	"Y" = UVC present for any length of time

Respiratory Support

Data Entry Form Name	Field Name	Type	Length	Limits	Definition
Caffeine or Apnea Drug	CAFFEINE	Alpha	1	Y, N	"Y" = Infant received caffeine or other drug for apnea
Recurrent Apnea	RECAPNEA	Alpha	1	Y, N	"Y" = Infant had recurrent episodes of apnea
O2	O2	Alpha	1	Y, N	"Y" = infant received any oxygen after resuscitation
Duration for O2	DURO2	#	1	1,2,3,4	1: <1 wk; 2: <28d; 3: <3 mo; 4: >3mo
O2 @ 36 wks CGA if >= 28 days old	O2AT36	Alpha	1	Y, N	"Y" = On chronic oxygen at 36 wks GA and >= 28 days old; Use "N" if infant was older than 32 weeks at birth
CPAP Only	CPAPONLY	Alpha	1	Y, N, U	"Y" = infant with mechanical ventilation only for administration of surfactant. "U" = Unknown
IPPV	IPPV	Alpha	1	Y, N	"Y" = infant received any IPPV after resuscitation except for surfactant dosing
Duration for IPPV	DURIPPV	#	1	1,2,3,4	1: <1 wk; 2: <28d; 3: <3 mo; 4: >3mo
IPPV @ 36 wks CGA if >= 28 days old	IPPVAT36	Alpha	1	Y, N	"Y" = On IPPV at 36 wks GA and >= 28 days old; Use "N" if infant was older than 32 weeks at birth
ECMO	ECMO	Alpha	1	Y, N	"Y" = Infant received ECMO
Nitric Oxide	NITROX	Alpha	1	Y, N	"Y" = Infant received Nitric Oxide

Baylor Database Data Definitions and Limits

Congenital Anomalies

Data Entry Form Name	Field Name	Type	Length	Limits	Definition
Congenital Anomalies	CONGANOM	Alpha	1	Y, N	Excludes infants with congenital heart disease and congenital diaphragmatic hernia unless they have other congenital anomalies.
Congenital Heart Disease	CONGHD	Alpha	1	Y, N	"Y" = complex congenital heart disease, excluding PDA
Diaphragmatic Hernia	DIAHERN	Alpha	1	Y, N	Infant with diaphragmatic hernia should have "Congenital Anomalies" = "Y" only if infant has congenital anomalies other than diaphragmatic hernia.

Lung Disease

Data Entry Form Name	Field Name	Type	Length	Limits	Definition
Hyaline Membrane Disease (HMD)	HMD	Alpha	1	Y, N	See supplemental definition
Transient Tachypnea of the Newborn (RFLF)	TTN	Alpha	1	Y, N	"Y if infant: 1) requires oxygen after delivery; 2) has a typical chest x-ray showing a star-burst appearance with a normal-to-increased lung volume; and 3) has no other obvious lung disease. Should have a negative blood culture.
Persistent Pulmonary Hypertension of the Newborn (PPHN)	PPHN	Alpha	1	Y, N	"Y" = infant with documented right-to-left shunt in patent ductus arteriosus or foramen ovale. Documented by echocardiography or measurement of pre- and post-ductal arterial blood gas tensions. Infant may have PPHN plus other lung diseases, such as diaphragmatic hernia, pulmonary hypoplasia, meconium aspiration pneumonia, or HMD.
Congenital Pneumonia	CONGPNEU	Alpha	1	Y, N	"Y" = infant with abnormal chest x-ray that persists for >24 hours and a positive blood culture.
Meconium Aspiration Pneumonia	MAS	Alpha	1	Y, N	"Y" = infant with meconium suctioned from trachea and evidence of respiratory distress. Should have a persistently abnormal chest x-ray for >24 hours following delivery.
Pulmonary Hypoplasia	PULHYPOP	Alpha	1	Y, N	"Y" = infants with idiopathic pulmonary hypoplasia from oligohydramnios, Potter's Syndrome, and other congenital malformations such as diaphragmatic hernia.
Air Block (includes PIE)	AIRBLOCK	Alpha	1	Y, N	"Y" = PIE, pneumomediastinum, pneumothorax, pneumopericardium
Other Acute Lung Disease	OTHLUNG	Alpha	1	Y, N	"Y" = other lung disease. Does not include infants with BPD or air block including PIE.

Baylor Database Data Definitions and Limits

Diagnostic Criteria for Hyaline Membrane Disease

Infants > 1500 Grams

1. Spontaneously breathing infant requires > 50% oxygen in the first day of life and has a history compatible with HMD. Such patients are candidates for CPAP by endotracheal tube and treatment with rescue surfactant.
2. Infants requiring IPPV and with a PaO₂/PAO₂ ratio <0.22 (FiO₂>35%) qualify for diagnosis of HMD and rescue surfactant treatment.
3. Negative blood culture (if done).

Infants <1500 Grams

1. Infant is on IPPV. Prior to or following treatment with surfactant, the PaO₂/PAO₂ ratio is <0.22 (FiO₂>35%) for more than twelve hours.
2. Infants treated with CPAP because of oxygen requirement >50% meet diagnostic criteria for HMD and also qualify for rescue surfactant treatment.
3. Negative blood culture (if done).

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Infectious Disease

<i>Data Entry Form Name</i>	<i>Field Name</i>	<i>Type</i>	<i>Length</i>	<i>Limits</i>	<i>Definition</i>
Early Onset Sepsis	ERLYSEPS	Alpha	1	Y, N	"Y" = infant's blood culture was positive within first 48 hours after birth.
Acquired Sepsis	SEPSIS	Alpha	1	Y, N	"Y" = positive blood culture after 48h
1st Episode Organism:	EPISODE1	Alpha	30	Open	
2nd Episode Organism:	EPISODE2	Alpha	30	Open	
3rd Episode Organism:	EPISODE3	Alpha	30	Open	
Meningitis	MENINGTS	Alpha	1	Y, N	"Y" = Infant diagnosed with meningitis
NEC (Pneumatosis present)	NEC	Alpha	1	Y, N	"Y" = Necrotizing enterocolitis diagnosed and pneumatosis present.
NEC Surgery	NECSURGY	Alpha	1	Y, N	"Y" = Infant had surgery or drains placed for NEC, excluding stricture repair. "N" if "NEC" = "N"

Neurologic Disease

<i>Data Entry Form Name</i>	<i>Field Name</i>	<i>Type</i>	<i>Length</i>	<i>Limits</i>	<i>Definition</i>
SEH/IVH	IVH	Alpha	1	Y, N, U	"Y" = Infant had subependymal hemorrhage/ intraventricular hemorrhage. "U" = status of the intracranial hemorrhage is unknown.
Grade of IVH	GRADEIVH	#	1	1,2,3,4,9	Highest grade of IVH on first cranial ultrasound; Unknown = "9"
Cystic PVL on ultrasound	CYSTICPVL	Alpha	1	Y, N, U	"Y" = cystic PVL noted; "U" = test (usually ultrasound) not done
Posthemorrhagic Hydrocephalus	POSTHYDRO	Alpha	1	Y, N, U	"Y" = Posthemorrhagic Hydrocephalus noted; "U" = test (usually ultrasound) not done
Surgery for ROP	ROPSURGY	Alpha	1	Y, N	"Y" = Infant had ROP surgery
Neonatal Seizures	NEOSEIZ	Alpha	1	Y, N	"Y" = Seizures diagnosed by EEG or treated with anti-seizure medication

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Other Clinical Data

<i>Data Entry Form Name</i>	<i>Field Name</i>	<i>Type</i>	<i>Length</i>	<i>Limits</i>	<i>Definition</i>
Jaundice and Phototherapy	JAUNDICE	Alpha	1	Y, N	"Y" = Infant treated with phototherapy for jaundice
PDA	PDA	Alpha	1	Y, N	"Y" = Patent ductus arteriosus; Prophylactic Indomethacin only should be coded as "N"
PDA Rx+	PDARX	Alpha	1	L,I,B,N	"L" = Ligation; "I" = Indomethacin; "B" = Both indomethacin and ligation; "N"=None; Prophylactic Indomethacin only should be coded as "N"
Nasal CPAP complication	NASALCPAP	Alpha	1	Y, N	ENT or Plastic Surgeon consult required
Tracheal Stenosis	TRACHSTN	Alpha	1	Y, N	"Y" = Infant has documented tracheal stenosis
Central Line	CLTPN	Alpha	1	Y, N	"Y" = Central line, including PIC lines, present for any length of time. Excludes UVC and UAC
Isolated Bowel Perforation	BOWELPERF	Alpha	1	Y, N	"Y" = Bowel perforation not classified as NEC-related; no pneumatosis (started 7/1/01)
Unusual DX, RX, or Surgery	UNUSUAL	Alpha	45	Open	

Discharge Data

<i>Data Entry Form Name</i>	<i>Field Name</i>	<i>Type</i>	<i>Length</i>	<i>Limits</i>	<i>Definition</i>
Discharge Weight in grams	DSCHRGWT	#	5	<=20000, 99999	Infant's weight at discharge; Unknown = "0"
Discharge FOC in cm	DSCHRFOC	#	2	<60, >15, 0	Infant's FOC at discharge; Unknown = "0"
Discharge on Apnea Monitor	DSCAPMON	Alpha	1	Y, N	"Y" = Infant discharged with apnea monitor
Discharge on Oxygen	DSCOXYGN	Alpha	1	Y, N	"Y" = Infant discharged on oxygen of any amount or duration
Discharge/S.O/Physician	DISSOPHY	Alpha	20	Open	Baylor Neo attending who discharged the infant
Follow-up Physician	FUPHYS	Alpha	20	Open	Physician who will see infant after hospitalization
Discharge Location	DISLOCA	Alpha	1	A, H, D	"A"=Another Hospital or LT Care facility; "H"=Home; "D" = Died